

composed only of surface data of the three-dimensional object from the volume data obtained in the above step;

5 a step of cutting the three-dimensional object composed only of the surface data produced in the above step along a predetermined cross section;

a step of defining the shape of the three-dimensional object to be recorded in a hologram by adding surface data representing cross-sectional surfaces on the cut cross section to the same;

10 a step of producing a plurality of two-dimensional original images as observed in different observing directions from the three-dimensional object defined in the above step; and

15 a step of recording element holograms relating to said two-dimensional original images to positions on a hologram plane corresponding to the observing directions, respectively, such that the two-dimensional original images are arranged in one-dimensional direction or in two-dimensional directions.

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